Home Water Supply

46% of NH Population Served by Private Wells 520,000 People Served by 250,000 Wells

Basic Facts a Homeowner Needs to Know

- 1) What Type of Well?
- 2) How Much Water?
- 3) Is the Water Safe to Drink?

Well Database

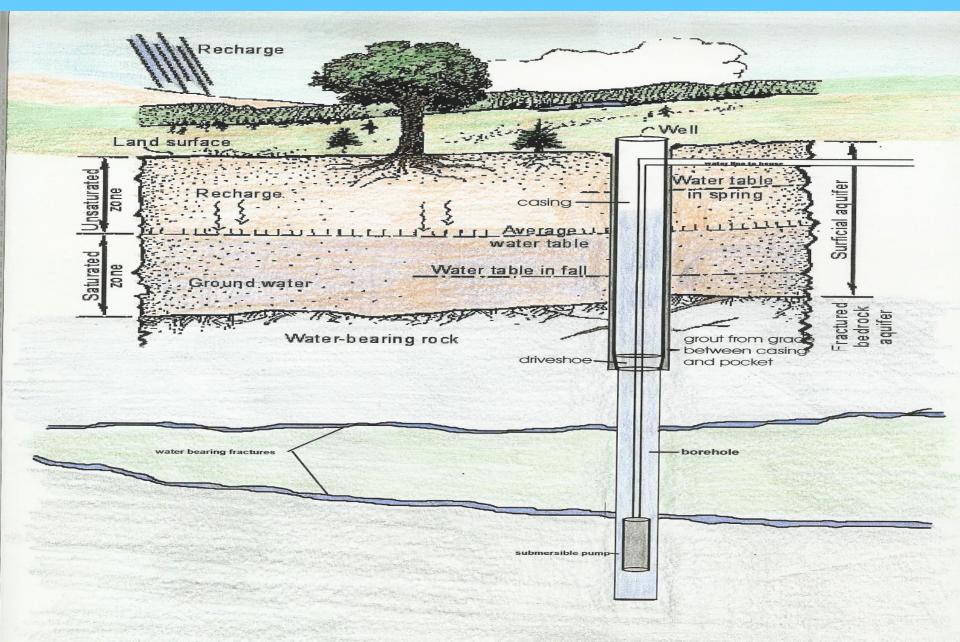
No. Records in Well Database	124,500
Wells Constructed Annually in NH	2,000 to 6,000
Wells Constructed in 2015	2,000+
Well Type	% Total Wells
1) Drilled in Bedrock	95
2) Constructed in Sand and Gravel	4
3) Dug Wells Constructed by Excavation	< 1

	Median Depth (ft)	Median Yield (gpm)	Deepest Well (ft)
Bedrock Wells	320	8	2,500
Windham Wells	405	10	2,500

No. Wells w/Depths Ranging from 1,000 to 2,500 ft 1,600+ Windham Well Depths from 1,000 to 2,500 ft 221



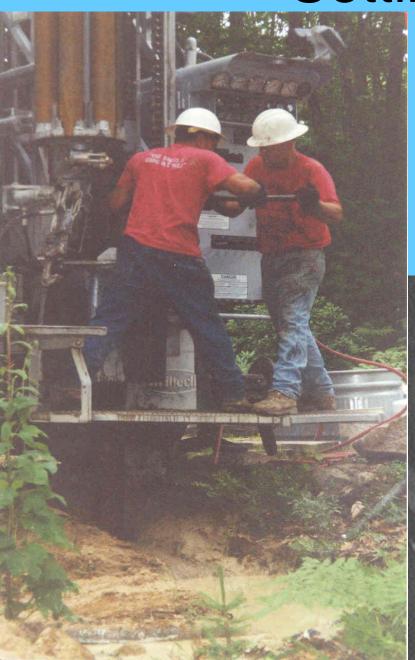
Bedrock Well Construction



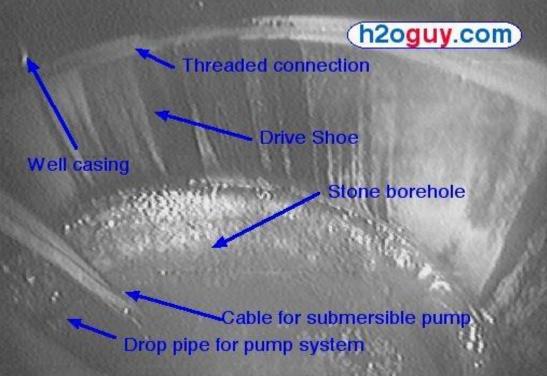




Setting Casing



- ✓ Minimum Depth 20 feet
- √ 10 feet into Competent Bedrock
- ✓ Driveshoe Required
- √ Sealed to Bedrock





Dug Wells



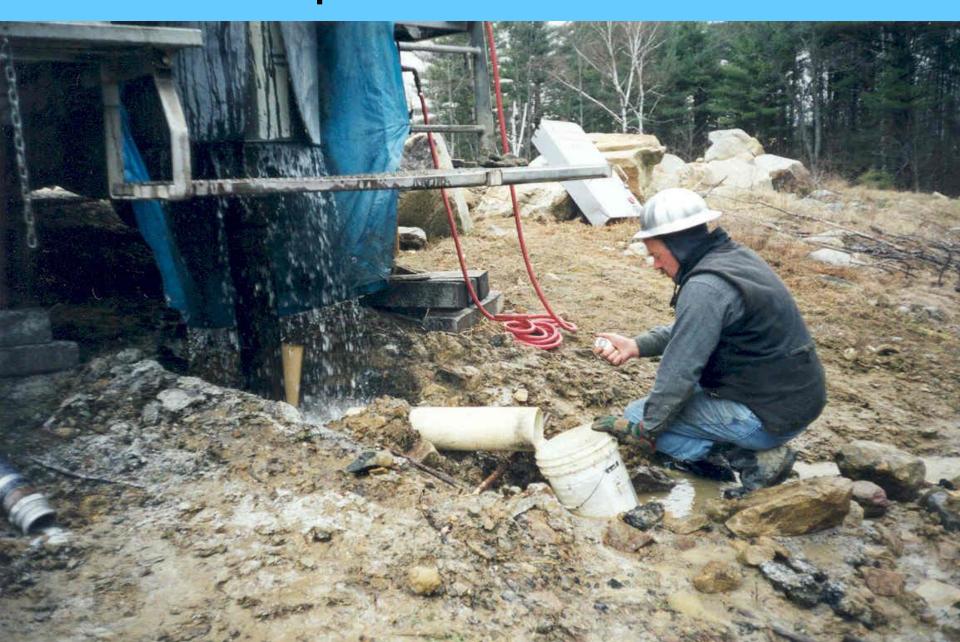








Compressed Air Test



No State Requirement for Minimum Well Yield

Recommended Minimum Capacity

600 Gallons within a 2 Hour Period at Least Once Per Day

Equal to:

5 Gallons Per Minute for 2 Hours

Minimum Capacity Table

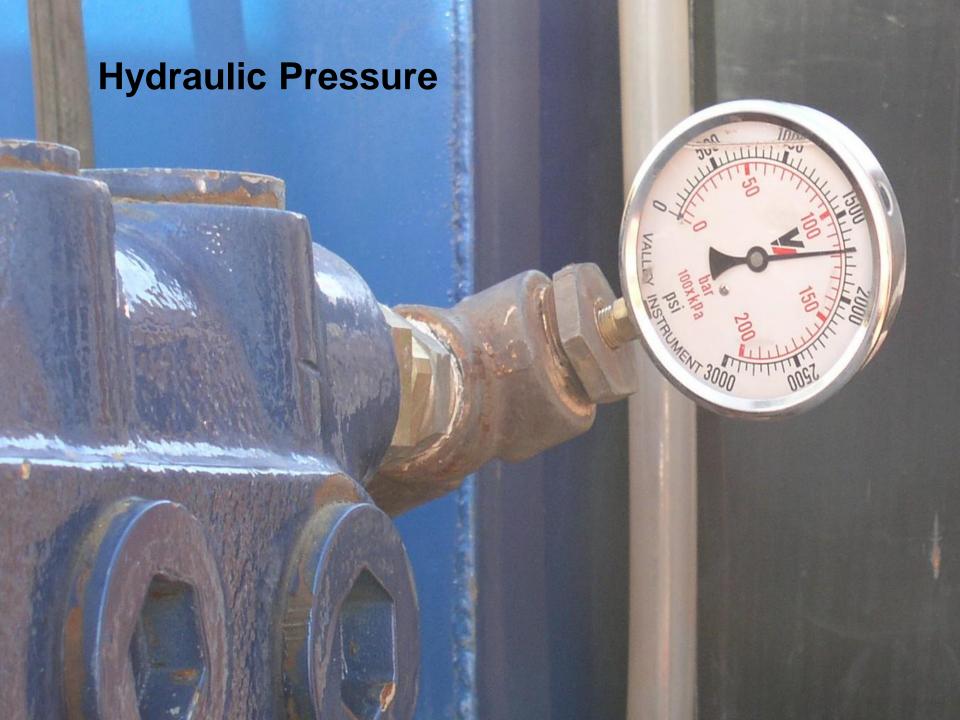
Supply 600 Gallons in 2 Hours

Sustained Well Yield [gpm]	Required Well Depth [ft]
0.5	400
1	360
1.5	320
2	280
2.5	240
3	200
3.5	160
4	120
4.5	80
5	

Well Yields for Domestic Bedrock Wells

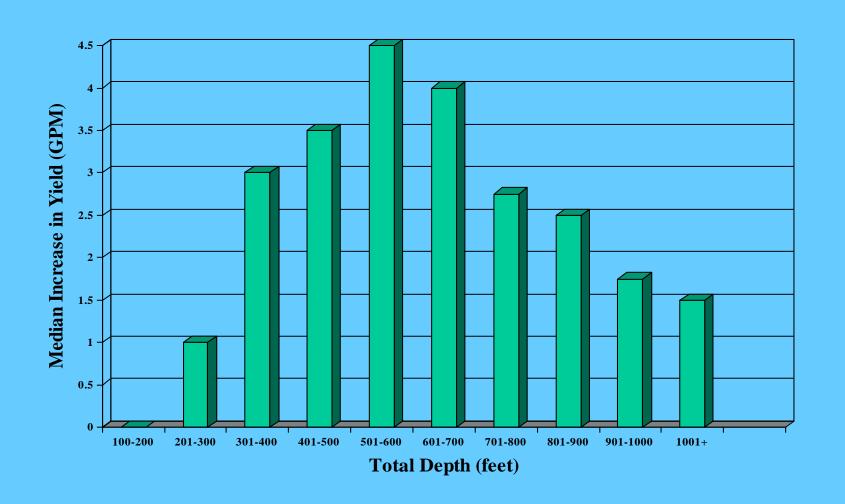
Yield Range [gpm]	Statewide Percent of Total	Town of Windham Percent of Total
Greater than 5	60%	62%
Between 2.1 and 5	30%	19%
Between 0.5 and 2	9%	14%
Less than 0.5	1%	5%







Median Increases in Yield following Hydrofracturing – February 2001 Based on 1,089 wells





Wire Connections & Grounding

- ✓ Submersible pump motors grounded and bonded to well casings.
- ✓ Wire connections must be water tight.
 - Exception: Grounding conductor
- Wire nuts prohibited



Common Non-Compliant Cover









Artesian Well
w/ Caulking Seal?
No Electrical Conduit?





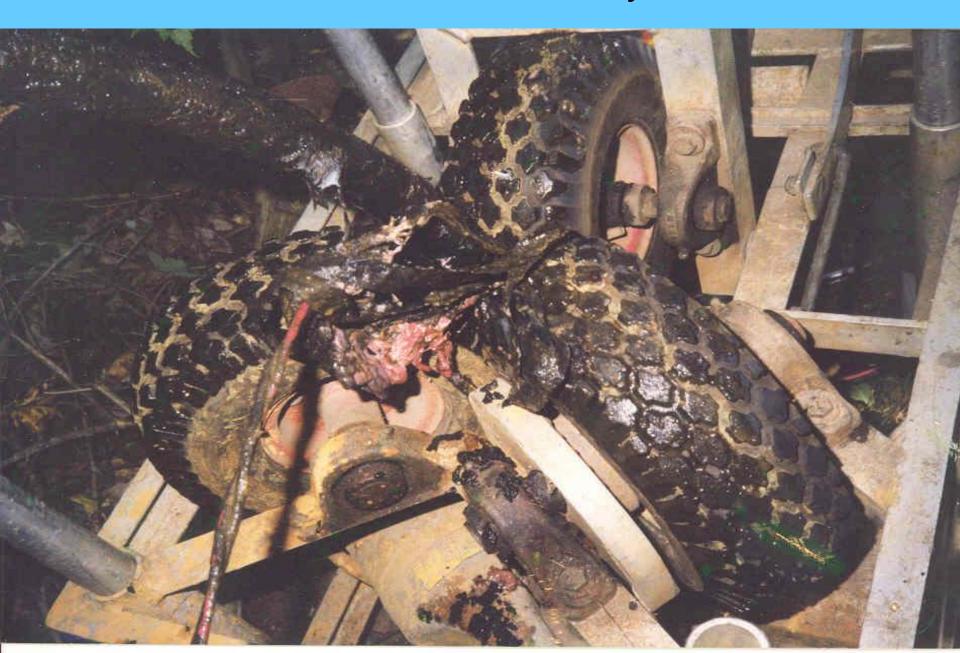








Gruesome Discovery





Well Information

Well Construction Details on the Web http://des.nh.gov

Look for

OneStop Data and Information



NH Geological Survey at 271-1976

or

Drinking Water and Groundwater Bureau at 271-3209